AMENDMENT TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

Claims 1-50.   (Cancelled).

51.   (currently amended)   A radio terminal for use within ~~In~~ an ad-hoc, ~~peer-to-peer~~ multihopping radio system comprising a series of radio terminals, said radio system based on time-dependent messaging having multiple parallel data channels and a control channel, ~~each~~ said radio terminal comprising:

a transceiver means for transmitting and receiving signals from other like terminals of said series of radio terminals; [[,]]

a computer means; and

a memory means for storing program software ~~means~~ for processing by said computer means ~~therein, said radio system based on time-dependent messaging having multiple parallel data channels and a control channel, the improvement comprising:~~

said memory means ~~of each said radio terminal~~ for storing registration information about an other ~~said~~ radio terminal for which said radio terminal ~~which~~ serves as a node ~~therefor~~ through which it has been registered for forming a call-connection routing path, [[;]] and

said memory means ~~of each said radio terminal~~ also storing registration information about any ~~other said~~ descendent radio terminals for which said other radio terminal [[it]] serves as a node ~~therefor~~ through which said ~~any other~~ descendent radio terminals has been registered.

52.   (currently amended)   A radio terminal for use within ~~In~~ an ad-hoc, ~~peer-to-peer~~ multihopping radio system comprising a series of radio terminals, said radio system based on time-dependent messaging having multiple parallel data channels and a control channel, ~~each~~ said radio terminal comprising:

a transceiver means for transmitting and receiving signals from other like terminals of said series of radio terminals; [[,]]

a computer means; and

a memory means for storing program software for processing by said computer means ~~means therein, said radio system based on time-dependent messaging having multiple parallel data channels and a control channel, the improvement comprising:~~

said memory means ~~of each said radio terminal~~ for storing registration information about an other ~~said~~ radio terminal for which said radio terminal ~~which~~ serves as a node ~~therefor~~ through which [[it]] said other radio terminal has been registered for forming a call-connection routing path, [[;]] and

said memory means ~~of each said radio terminal~~ also for storing registration information about any ~~other said~~ descendent radio terminals for which said other radio terminal [[it]] serves as a node ~~therefor~~ through which said ~~any other~~ descendent radio terminal has been registered,

wherein said software means comprises updating means for updating said memory means; said updating means changing said registration information in order to reflect any changes in said nodes.

53.   (currently amended)   A radio terminal for use within ~~In~~ an ad-hoc, ~~peer-to-peer~~ multihopping radio system comprising a series of radio terminals, said radio system based on time-dependent messaging having multiple parallel data channels and a control channel, ~~each~~ said radio terminal comprising:

a transceiver means for transmitting and receiving signals from other like terminals of said series of radio terminals; [[,]]

a computer means; and

a memory means for storing program software for processing by said computer means ~~means therein, said radio system based on time-dependent messaging having multiple parallel data channels and a control channel, the improvement comprising:~~

said memory means ~~of each said radio terminal~~ for storing registration information about an other ~~said~~ radio terminal for which said radio terminal serves as a node ~~therefor~~ through which [[it]] said other radio terminal has been registered for forming a call-connection routing path, [[;]] and

said memory means ~~of each said radio terminal~~ also for storing registration information about any ~~other said~~ descendent radio terminals for which [[it]] said other radio terminal serves as a node ~~therefor~~ through which said ~~any other~~ descendent radio terminal has been registered,

wherein said updating means comprises means for unregistering another said radio terminal, which had been registered with said radio terminal [[it]], from said memory means.

54.   (new)   An ad-hoc, multihopping radio system based on time-dependent messaging having multiple parallel data channels and a control channel, said radio system comprising:

a plurality of radio terminals for communication of one or more signals along at least one call-connection routing path,

wherein said call-connection routing path comprises a source radio terminal, a destination radio terminal and all radio terminal descendents of a common parent radio terminal of said source radio terminal and said destination radio terminal which are not descendents of said source radio terminal or said destination radio terminal,

wherein said parent radio terminal comprises:

a transceiver for transmitting and receiving signals from one or more of said plurality of radio terminals, and

a memory for storing registration information about one or more direct descendent radio terminals for which said parent radio terminal serves as a node through which it has been registered for forming said call-connection routing path,

said memory means also storing registration information about one or more indirect descendent radio terminals for which said direct descendent radio terminal serves as a node through which said indirect descendent radio terminal has been registered.

55.   (new)   An ad-hoc, multihopping radio system as claimed in claim 54, wherein said memory means further is for storing of a software program comprising updating means for updating said memory means; said updating means changing said registration information in order to reflect any changes in said nodes.

56.   (new)   An ad-hoc multihopping radio system as claimed in claim 55, wherein said updating means comprises means for unregistering another said radio terminal, which had been registered with said radio terminal, from said memory means.